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ABSTRACT

This book helps children develop the capability and confidence to design, construct, and evaluate working models. Projects in this book are suitable for students in grades K-4, but may be adapted for older students. Step-by-step explanations for each project are meant as guidelines and completion of the project is not limited to a single correct solution. Following the "Introduction," 20 design projects are given. These are: (1) "Gravity-Powered Vehicle"; (2) "Gravity-Powered, Inserted-Axle Vehicle"; (3) "Rubber Band-Powered, Inserted-Axle Vehicle"; (4) "Rubber Band-Powered Airplane"; (5) "Rubber Band-Powered Submarine"; (6) "Rubber Band-Powered Paddle Boat"; (7) "Rubber Band-Powered Rocket"; (8) "Pneumatic-Powered Airplane"; (9) "Pneumatic-Powered Boat"; (10) "Dump Truck with a Pneumatic Lift"; (11) "Pneumatic Pop-Up Toy"; (12) "Hydraulic-Powered Plant"; (13) "Clock with Gears"; (14) "Movable Santa: A Pulling Force"; (15) "Levered Kangaroo: A Compelling Force"; (16) "Hopping Kangaroo with a Drive Mechanism"; (17) "Marionette Ant"; (18) "Marionette Crocodile"; (19) "Marionette Robot"; and (20) "Bridge." The book contains a list of professional references. (MM)

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